09/401,874

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     (FILE 'HOME' ENTERED AT 12:52:38 ON 22 NOV 2000)

     FILE 'USPATFULL' ENTERED AT 12:53:12 ON 22 NOV 2000
L1         18542 S IDENTIF? (P)FAIL?
L2        861353 S (TABLE# OR LIST? OR MATRI?)
L3          8631 S SEND? (P) PACKET#
L4           372 S NEIGHBOR (P) ACTIVE#
L5          2588 S L1 (P) L2
L6            35 S L5 (P) L3
L7             0 S L6 (P) L4
L8             0 S L6 AND L4
L9             3 S L6 (P) ACTIVE
L10          627 S IDENTIF? (4A)FAIL? (3A)(DEVICE# OR UNIT# OR SYSTEM# OR
NETWOR
L11         1859 S IDENTIF? (4A)(FAIL? OR ERROR# OR TROUBLE OR PROBLEM#)
(3A)(DE
L12          267 S NEIGHBOR (2A)L2
L13            0 S L11 (P) L12
L14            1 S L11 AND L12
L15            1 S L14 AND PACKET#
L16       685646 S (ROUTER# OR SWITCH? OR BRIDGE#)
L17            1 S L15 AND L16
L18            1 S L17 AND ACTIVE
L19         1193 S PERIOD? POLL?
L20         9450 S UPDAT? (3A)(TABLE# OR LIST? OR MATRI?)
L21            0 S L18 AND L19
L22            0 S L18 AND L20
L23        14404 S INDEX? (3A)(TABLE# OR LIST? OR MATRI?)
L24         2566 S NETWORK ADDRESS?
L25           50 S MANAGEMENT INFORMATION BASE II OR MIB II
L26            0 S L18 AND L23
L27            0 S L18 AND L24
L28            0 S L18 AND L25
L29       192695 S (PLURAL? OR MULTIPL?)(2A)(DEVICE# OR UNIT# OR SYSTEM#)
L30          655 S L29 AND L11 AND L2
L31          517 S L30 AND L16
L32           21 S L31 AND L19
L33            7 S L32 AND L20
L34            3 S L33 AND L23
L35            3 S L34 AND L24
L36            0 S L25 AND L35
L37          185 S L11 AND L20
L38           12 S L37 AND L23 AND L24
L39            0 S L38 AND L25
L40           12 S L16 AND L38
L41            3 S L19 AND L40
L42           16 S L33 OR L40
L43           13 S L42 NOT L41
L44            0 S US5157667/UREF
L45            0 S US5157667/USREF
L46            0 S US5157667/USREF
L47        59701 S TI
L48           37 S US5157667/RPN
L49            0 S L48 AND LL19
L50            2 S L48 AND L19
L51            0 S L20 AND L50
L52          246 S L23 AND L24
L53            0 S L52 AND L48
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L54           0 S L48 AND L25
L55           0 S L25 (P) L11
L56           2 S L11 AND L25
L57          23 S L11 (P) L52
L58          23 S L11 AND L23 AND L24
L59           2 S L58 AND NEIGHBOR
L60           0 S L58 AND L48
L61         182 S L37 NOT L34
L62          20 S L57 NOT L34
L63        1443 S TABLE INDEX?
L64           9 S L63 AND L62

=> d 1-9


L64  ANSWER 1 OF 9  USPATFULL
AN     2000:119091  USPATFULL
TI     Networked facilities management system
IN     Pascucci, Gregory A., Waukesha, WI, United States
       Rasmussen, David E., Wales, WI, United States
       Decious, Gaylon M., Milwaukee, WI, United States
       Garbe, James R., Greenfield, WI, United States
       Hyzer, Susan M., Brown Deer, WI, United States
       Woest, Karen L., Wauwatosa, WI, United States
       Vairavan, Vairavan, Milwaukee, WI, United States
       Koch, David L., Fox Point, WI, United States
       Gottschalk, Jr., Donald A., Milwaukee, WI, United States
       Burkhardt, Dennis E., Franklin, WI, United States
       Standish, Darrell E., New Berlin, WI, United States
       Madaus, Paul W., Oak Creek, WI, United States
       Spacek, Dan J., Cudahy, WI, United States
       Nesler, Clay G., New Berlin, WI, United States
       Stark, James K., Wauwatosa, WI, United States
       Mageland, Otto M., Greenfield, WI, United States
       Singers, Robert R., Brown Deer, WI, United States
       Wagner, Michael E., Delafield, WI, United States
PA     Johnson Controls Technology Company, Plymouth, MI, United States (U.S.
       corporation)
PI     US 6115713  20000905
AI     US 1996-706194  19960830 (8)
RLI    Division of Ser. No. US 1993-170086, filed on 17 Dec 1993, now
patented,
       Pat. No. US 5884072 which is a division of Ser. No. US 1990-476031,
       filed on 30 Jan 1990, now abandoned
DT     Utility
LN.CNT 5994
INCL   INCLM: 707/010.000
       INCLS: 709/201.000; 709/238.000; 714/001.000; 714/037.000
NCL    NCLM:  707/010.000
       NCLS:  709/201.000; 709/238.000; 714/001.000; 714/037.000
IC     [7]
       ICM: G06F011-00
EXF    707/10; 709/200-203; 714/1; 714/2; 714/37

L64  ANSWER 2 OF 9  USPATFULL
AN     1999:34963  USPATFULL
TI     Networked facilities management system with updated data based on aging
       time
IN     Rasmussen, David E., Wales, WI, United States
PA     Johnson Service Company, Milwaukee, WI, United States (U.S.
corporation)
PI     US 5884072  19990316
AI     US 1993-170086  19931217 (8)
RLI    Division of Ser. No. US 1990-476031, filed on 30 Jan 1990, now
abandoned
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DT Utility
LN.CNT 5951
INCL INCLM: 395/600.000
INCLS: 395/200.010; 395/200.050; 395/200.160; 364/131.000; 364/132.000; 364/221.900; 364/242.960; 364/550.000; 364/DIG.001; 364/DIG.002
NCL NCLM: 709/223.000
NCLS: 700/002.000; 700/003.000; 709/224.000
IC [6]
ICM: G06F017-30
ICS: G06F015-163
EXF 395/200; 395/600; 395/700; 395/200.01; 395/200.05; 395/200.16; 364/569; 364/131; 364/132; 364/221.9; 364/242.96; 364/550

L64 ANSWER 3 OF 9 USPATFULL
AN 97:8661 USPATFULL
TI Networked facilities management system having a node configured with distributed load management software to manipulate loads controlled by other nodes
IN Pascucci, Gregory A., Waukesha, WI, United States
Rasmussen, David E., Wales, WI, United States
Decious, Gaylon M., Milwaukee, WI, United States
Garbe, James R., Greenfield, WI, United States
Hyzer, Susan M., Brown Deer, WI, United States
Woest, Karen L., Wauwatosa, WI, United States
Vairavan, Vairavan, Milwaukee, WI, United States
Koch, David L., Fox Point, WI, United States
Gottschalk, Jr., Donald A., Milwaukee, WI, United States
Burkhardt, Dennis E., Franklin, WI, United States
Standish, Darrell E., New Berlin, WI, United States
Madaus, Paul W., Oak Creek, WI, United States
Spacek, Dan J., Cudahy, WI, United States
Nesler, Clay G., New Berlin, WI, United States
Stark, James K., Wauwatosa, WI, United States
Mageland, Otto M., Greenfield, WI, United States
Singers, Robert R., Brown Deer, WI, United States
Wagner, Michael E., Delafield, WI, United States
PA Johnson Service Company, Milwaukee, WI, United States (U.S. corporation)
PI US 5598566 19970128
AI US 1994-179494 19940107 (8)
RLI Division of Ser. No. US 1990-476031, filed on 30 Jan 1990, now abandoned
DT Utility
LN.CNT 5976
INCL INCLM: 395/750.000
INCLS: 364/DIG.001; 364/DIG.002; 364/221.900; 364/222.000; 364/228.000; 364/229.000; 364/229.100; 364/230.000; 364/230.400; 364/242.940; 364/273.000; 364/273.100; 364/273.200; 364/273.300; 364/273.400
NCL NCLM: 713/324.000
NCLS: 713/300.000
IC [6]
ICM: G06F015-177
EXF 364/DIG.1MSFile; 364/DIG.2MSFile; 364/492; 364/493; 395/200; 395/375; 395/600; 395/750; 395/800; 395/200.01; 395/200.02; 395/200.03; 395/200.05; 395/200.1; 395/200.11

L64 ANSWER 4 OF 9 USPATFULL
AN 96:78621 USPATFULL
TI Networked facilities management system with optical coupling of local network devices
IN Pascucci, Gregory A., Waukesha, WI, United States
Rasmussen, David E., Wales, WI, United States
Decious, Gaylon M., Milwaukee, WI, United States
Garbe, James R., Greenfield, WI, United States
Hyzer, Susan M., Brown Deer, WI, United States

Woest, Karen L., Wauwatosa, WI, United States
Vairavan, Vai[redacted]n, Milwaukee, WI, United State[redacted]
Koch, David L., Fox Point, WI, United States
Gottschalk, Jr., Donald A., Milwaukee, WI, United States
Burkhardt, Dennis E., Franklin, WI, United States
Standish, Darrell E., New Berlin, WI, United States
Madaus, Paul W., Oak Creek, WI, United States
Spacek, Dan J., Cudahy, WI, United States
Nesler, Clay G., New Berlin, WI, United States
Stark, James K., Wauwatosa, WI, United States
Mageland, Otto M., Greenfield, WI, United States
Singers, Robert R., Brown Deer, WI, United States
Wagner, Michael E., Delafield, WI, United States
PA Johnson Service Company, Milwaukee, WI, United States (U.S. corporation)
PI US 5550980 19960827
AI US 1994-178970 19940107 (8)
RLI Division of Ser. No. US 1990-476031, filed on 30 Jan 1990, now abandoned
DT Utility
LN.CNT 5932
INCL INCLM: 395/200.050
INCLS: 364/DIG.001; 364/DIG.002; 364/228.000; 364/228.400; 364/230.000; 364/230.400; 364/238.200; 364/238.300; 364/240.000; 364/240.600
NCL NCLM: 359/111.000
NCLS: 709/223.000
IC [6]
ICM: G06F003-00
EXF 364/DIG.1MSFile; 364/DIG.2MSFile; 395/200; 395/250; 395/375; 395/500; 395/750; 395/800; 395/200.01; 395/200.02; 395/200.05; 323/902; 340/854.3; 340/854.7; 340/854.8; 340/854.9; 372/43; 372/50; 372/703

L64 ANSWER 5 OF 9 USPATFULL
AN 96:46894 USPATFULL
TI Networked facilities management system
IN Pascucci, Gregory A., Waukesha, WI, United States
Rasmussen, David E., Wales, WI, United States
Decious, Gaylon M., Milwaukee, WI, United States
Garbe, James R., Greenfield, WI, United States
Hyzer, Susan M., Brown Deer, WI, United States
Woest, Karen L., Wauwatosa, WI, United States
Vairavan, Vairavan, Milwaukee, WI, United States
Koch, David L., Fox Point, WI, United States
Gottschalk, Jr., Donald A., Milwaukee, WI, United States
Burkhardt, Dennis E., Franklin, WI, United States
Standish, Darrell E., New Berlin, WI, United States
Madaus, Paul W., Oak Creek, WI, United States
Spacek, Dan J., Cudahy, WI, United States
Nesler, Clay G., New Berlin, WI, United States
Stark, James K., Wauwatosa, WI, United States
Mageland, Otto M., Greenfield, WI, United States
Singers, Robert R., Brown Deer, WI, United States
Wagner, Michael E., Delafield, WI, United States
PA Johnson Service Company, United States (U.S. corporation)
PI US 5522044 19960528
AI US 1994-185181 19940121 (8)
RLI Division of Ser. No. US 1990-476031, filed on 30 Jan 1990, now abandoned
DT Utility
LN.CNT 5966
INCL INCLM: 395/200.060
INCLS: 364/DIG.001; 364/DIG.002; 364/221.000; 364/221.900; 364/222.000; 364/222.100; 364/228.000; 364/229.000; 364/240.000; 364/242.940; 364/242.950; 364/920.300; 364/921.000; 364/921.400; 364/940.000; 364/940.610; 395/260.100

NCL NCLM: 709/222.000
NCLS: 709/229.000; 709/243.000
IC [6]
ICM: G06F013-00
EXF 364/DIG.1MSFile; 364/DIG.2MSFile; 370/60; 370/94; 370/99; 370/110.1; 370/94.1; 370/85.1; 370/85.7; 370/95.1; 370/60.1; 395/200; 395/250; 395/275; 395/650; 395/800

L64 ANSWER 6 OF 9 USPATFULL
AN 96:34962 USPATFULL
TI Networked facilities management system with time stamp comparison for data base updates
IN Pascucci, Gregory A., Waukesha, WI, United States
Rasmussen, David E., Wales, WI, United States
Decious, Gaylon M., Milwaukee, WI, United States
Garbe, James R., Greenfield, WI, United States
Hyzer, Susan M., Brown Deer, WI, United States
Woest, Karen L., Wauwatosa, WI, United States
Vairavan, Vairavan, Milwaukee, WI, United States
Koch, David L., Fox Point, WI, United States
Gottschalk, Jr., Donald A., Milwaukee, WI, United States
Burkhardt, Dennis E., Franklin, WI, United States
Standish, Darrell E., New Berlin, WI, United States
Madaus, Paul W., Oak Creek, WI, United States
Spacek, Dan J., Cudahy, WI, United States
Nesler, Clay G., New Berlin, WI, United States
Stark, James K., Wauwatosa, WI, United States
Mageland, Otto M., Greenfield, WI, United States
Singers, Robert R., Brown Deer, WI, United States
Wagner, Michael E., Delafield, WI, United States
PA Johnson Service Company, Milwaukee, WI, United States (U.S. corporation)
PI US 5511188 19960423
AI US 1993-176730 19931230 (8)
RLI Division of Ser. No. US 1990-476031, filed on 30 Jan 1990, now abandoned
DT Utility
LN.CNT 5929
INCL INCLM: 395/600.000
INCLS: 364/282.100; 364/DIG.001; 364/DIG.002
NCL NCLM: 707/203.000
NCLS: 707/104.000
IC [6]
ICM: G06F015-00
EXF 364/DIG.1MSFile; 364/DIG.2MSFile; 395/200; 395/325; 395/550; 395/600; 395/200.01

L64 ANSWER 7 OF 9 USPATFULL
AN 95:97816 USPATFULL
TI Method of downloading information stored in an arching device to destination network controller through intermediate network controllers in accordance with routing information
IN Pascucci, Gregory A., Waukesha, WI, United States
Rasmussen, David E., Wales, WI, United States
Decious, Gaylon M., Milwaukee, WI, United States
Garbe, James R., Greenfield, WI, United States
Hyzer, Susan M., Brown Deer, WI, United States
Woest, Karen L., Wauwatosa, WI, United States
Vairavan, Vairavan, Milwaukee, WI, United States
Koch, David L., Fox Point, WI, United States
Gottschalk, Jr., Donald A., Milwaukee, WI, United States
Burkhardt, Dennis E., Franklin, WI, United States
Standish, Darrell E., New Berlin, WI, United States
Madaus, Paul W., Oak Creek, WI, United States
Spacek, Dan J., Cudahy, WI, United States

Nesler, Clay G., New Berlin, WI, United States
Stark, James H., Wauwatosa, WI, United States
Mageland, Otto M., Greenfield, WI, United States
Singers, Robert R., Brown Deer, WI, United States
Wagner, Michael E., Delafield, WI, United States
PA Johnson Service Company, United States (U.S. corporation)
PI US 5463735 19951031
AI US 1994-191284 19940203 (8)
RLI Division of Ser. No. US 1990-476031, filed on 30 Jan 1990, now abandoned
DT Utility
LN.CNT 5915
INCL INCLM: 395/200.100
INCLS: 395/800.000; 395/200.160; 395/284.000; 370/054.000; 370/060.000; 364/221.700; 364/239.500; 364/242.960; 364/DIG.001; 364/DIG.002; 364/949.910; 364/975.100; 364/131.000
NCL NCLM: 709/222.000
NCLS: 370/351.000; 700/002.000; 709/237.000; 709/243.000; 710/104.000
IC [6]
ICM: G06F013-12
ICS: G06F013-14
EXF 395/200; 395/325; 395/800; 370/53; 370/54; 370/60; 370/60.1

L64 ANSWER 8 OF 9 USPATFULL
AN 95:76754 USPATFULL
TI Method of accessing configured nodes in a facilities management system with a non-configured device
IN Woest, Karen L., Wauwatosa, WI, United States
PA Johnson Service Company, Milwaukee, WI, United States (U.S. corporation)
PI US 5444851 19950822
AI US 1994-185674 19940121 (8)
RLI Division of Ser. No. US 1990-476031, filed on 30 Jan 1990, now abandoned
DT Utility
LN.CNT 5964
INCL INCLM: 395/200.100
INCLS: 364/DIG.001; 364/DIG.002; 364/221.000; 364/222.200; 364/242.940; 364/247.950; 364/927.920; 364/927.960
NCL NCLM: 709/222.000
NCLS: 709/208.000; 709/228.000; 709/242.000
IC [6]
ICM: G06F013-00
EXF 364/DIG.1MSFile; 364/DIG.2MSFile; 395/200; 395/250; 395/275; 395/325; 395/375; 395/600; 395/650; 395/700; 395/800; 370/94.1; 370/85.1; 370/85.7; 370/95.1; 370/60; 370/60.1; 379/59; 379/219; 379/220; 379/221; 455/33; 340/825.5; 340/825.1; 340/825.52; 340/825.03; 340/825.04; 340/825.36; 340/825.411

L64 ANSWER 9 OF 9 USPATFULL
AN 95:8261 USPATFULL
TI Networked facilities management system with balanced differential analog control outputs
IN Pascucci, Gregory A., Waukesha, WI, United States
PA Johnson Service Company, Milwaukee, WI, United States (U.S. corporation)
PI US 5384697 19950124
AI US 1993-175770 19931230 (8)
RLI Division of Ser. No. US 1990-476031, filed on 30 Jan 1990, now abandoned
DT Utility
LN.CNT 5951
INCL INCLM: 364/139.000

or more communicating nodes, each communication complying with a predefined communication protocol selected from among protocols available in the network. The contents of packets are detected passively and in real time, communication information associated with multiple protocols is derived from the packet contents.

L56 ANSWER 2 OF 2 USPATFULL
United States Patent Patent Number: 6041041
Date of Patent: 21 Mar 2000

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Method and system for managing data service systems

Inventor(s): Ramanathan, Srinivas, 655 S. Farioaks Ave., Sunnyvale, CA, United States 94086
Perry, Edward H., 484 Franklin St., Mountain View, CA, United States 94041
Jin, Tai, 1900 Parkwood Dr., San Mateo, CA, United States 94403
Appl. No.: 97-838117
Filed: 15 Apr 1997

Int. Cl. ..... H04J003-14
Issue U.S. Cl. ..... 370/241.000; 714/025.000
Current U.S. Cl. ..... 370/241.000; 714/025.000
Field of Search ..... 370/241; 370/242; 370/244; 370/248; 370/250; 370/252; 370/401; 709/224; 714/25; 714/37; 714/38

Reference Cited

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| US 5276676 | Jan 1994 | 370/253.000 | Horn et al. |
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| US 5724510 | Mar 1998 | 370/252.000 | Arndt et al. |
| US 5737517 | Apr 1998 | 714/038.000 | Kite et al. |
| US 5881051 | Mar 1999 | 370/248.000 | Arrowood et al. |
| US 5901141 | May 1999 | 370/248.000 | Gruber et al. |


Art Unit - 279
Primary Examiner - Jung, Min
Attorney, Agent or Firm - Li, Thomas X.

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30 Claim(s), 30 Drawing Figure(s), 27 Drawing Page(s)

ABSTRACT

A scheme is described for a data service system having a number of modules. Some of the modules are interdependent. To measure the status of an individual module, the scheme first collects measurements from a number of measurement routes that involve the module. Then the scheme analyzes the interdependencies of the measurements to determine the status of the individual module. The scheme may also determine status of the data service system with a minimal number of measurement routes. This is done by determining (1) all possible measurement routes, (2) determining the dependency between the modules and the measurement routes, and (3) analyzing the dependency to select minimal number of the measurement routes. The scheme can diagnose whether a module is a problematic module or not by analyzing a number of measurements that involve the module. If one of the measurements is good, the module is identified as

L9 ANSWER 2 OF 3 USPATFULL
United States Patent

Patent Number: 5918017
Date of Patent: 29 Jun 1999

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System and method for providing dynamically alterable computer clusters for message routing

Inventor(s): Attanasio, Clement Richard, Peekskill, NY, United States
Goldszmidt, German Sergio, Dobbs Ferry, NY, United States
Hunt, Guerney Douglas Holloway, Wappingers Falls, NY, United States
Smith, Stephen Edwin, Mahopac, NY, United States
Assignee: Internatioinal Business Machines Corp., Armonk, NY, United States
(U.S. corporation)
Appl. No.: 96-701939
Filed: 23 Aug 1996

Int. Cl. ..... G06F003-00
Issue U.S. Cl. ..... 395/200.540; 395/200.690; 395/200.720
Current U.S. Cl. ..... 709/224.000; 709/239.000; 709/242.000
Field of Search ..... 395/200.31; 395/674; 395/675; 395/729; 395/730; 395/731;
395/200.69; 395/200.72; 395/200.73; 395/182.09;
395/182.11; 395/200.54; 395/200.51; 370/221; 370/222

Reference Cited

PATENT DOCUMENTS


| Patent Number | Date | Class | Inventor |
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| US 5261096 | Nov 1993 | 395/200.730 | Howarth |
| US 5353412 | Oct 1994 | 395/200.730 | Douglas et al. |
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| US 5371852 | Dec 1994 | 395/200.540 | Attanasio et al. |
| US 5459864 | Oct 1995 | 395/675.000 | Brent et al. |
| US 5515509 | May 1996 | 395/200.690 | Rom |
| US 5539883 | Jul 1996 | 395/675.000 | Allon et al. |
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Jun. 18, 1996.


Art Unit - 273
Primary Examiner - Hindi, Nabil
Attorney, Agent or Firm - Ludwin, Richard M.; Dougherty, Anne V.; Jordan, Kevin M.

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11 Claim(s), 12 Drawing Figure(s), 12 Drawing Page(s)

ABSTRACT

A TCP-connection-router performs encapsulated clustering by dividing each encapsulated cluster into several Virtual EC (VECs), dynamically distributing incoming connections within a VEC based on current server load metrics according to a configurable policy. In one embodiment, the connection router supports dynamic configuration of the cluster, and enables transparent recovery
which provides uninterrupted service to the VEC clients.

L9 ANSWER 3 OF 3 USPATFULL

United States Patent Patent Number: 5287537
Date of Patent: 15 Feb 1994

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Distributed processing system having plural computers each using identical retaining information to identify another computer for executing a received command

Inventor(s): Newmark, Rona J., Northboro, MA, United States
Alicandro, Rosemarie, Millbury, MA, United States
Bixby, Peter C., Northboro, MA, United States
Burn, Donald D., Westboro, MA, United States
Enberg, Eric H., Westboro, MA, United States
Marino, Paul K., Hopkinton, MA, United States
Woodbury, Paul W., Hopkinton, MA, United States
Assignee: Data General Corporation, Westboro, MA, United States (U.S. corporation)

Appl. No.: 92-948071
Filed: 21 Sep 1992

Related U.S. Application Data

Continuation of Ser. No. US 1991-652460, filed on 7 Feb 1991, now abandoned which is a continuation of Ser. No. US 1988-175459, filed on 30 Mar 1988, now
abandoned
which is a division of Ser. No. US 1985-798665, filed on 15 Nov 1985, now patented, Pat. No. US 4920483, Pat. No. 4920483

Int. Cl. ..... G06F015-76
Issue U.S. Cl. ..... 395/800.000; 395/650.000; 395/325.000; 364/DIG.001; 364/281.300; 364/281.800; 364/230.300
Current U.S. Cl. ..... 712/029.000
Field of Search ..... 395/650; 395/800; 395/325

Reference Cited

PATENT DOCUMENTS


| Patent Number | Date | Class | Inventor |
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| US 4780821 | Oct 1988 | 364/200.000 | Crossley |
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| US 5014192 | May 1991 | 340/825.050 | Mansfield et al. |


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Art Unit - 237
Primary Examiner - Lee, Thomas C.

---

2 Claim(s), 162 Drawing Figure(s), 122 Drawing Page(s)

ABSTRACT

A distributed computer system having a plurality of digital computer systems interconnected by a bus. Each digital computer system runs one or more programs. When it receives a command directed to a system device or a program, it determines whether it can fulfill the command. If not, it determines which one of the other digital computer systems can fulfill the command based upon retaining information stored locally and forwards the command to the other digital computer system.

L43 ANSWER 11 OF 13 USPATFULL
United States Patent

Patent Number: 5463735
Date of Patent: 31 Oct 1995

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Method of downloading information stored in an arching device to destination network controller through intermediate network controllers in accordance with routing information


Inventor(s): Pascucci, Gregory A., Waukesha, WI, United States
Rasmussen, David E., Wales, WI, United States
Decious, Gaylon M., Milwaukee, WI, United States
Garbe, James R., Greenfield, WI, United States
Hyzer, Susan M., Brown Deer, WI, United States
Woest, Karen L., Wauwatosa, WI, United States
Vairavan, Vairavan, Milwaukee, WI, United States
Koch, David L., Fox Point, WI, United States
Gottschalk, Jr., Donald A., Milwaukee, WI, United States
Burkhardt, Dennis E., Franklin, WI, United States
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Nesler, Clay G., New Berlin, WI, United States
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Int. Cl. ..... G06F013-12; G06F013-14
Issue U.S. Cl. ..... 395/200.100; 395/800.000; 395/200.160; 395/284.000; 370/054.000; 370/060.000; 364/221.700; 364/239.500; 364/242.960; 364/DIG.001; 364/DIG.002; 364/949.910; 364/975.100; 364/131.000
Current U.S. Cl. ..... 709/222.000; 370/351.000; 700/002.000; 709/237.000; 709/243.000; 710/104.000
Field of Search ..... 395/200; 395/325; 395/800; 370/53; 370/54; 370/60; 370/60.1


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| Patent Number | Date | Class | Inventor |
|---|---|---|---|
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Art Unit - 237
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7 Claim(s), 86 Drawing Figure(s), 83 Drawing Page(s)

ABSTRACT

A network system having a wide variety of applications and particularly applicable to facilities management systems includes network controllers which continuously process data related to building and industrial, environmental, security and other automated system controls. Each network controller has a network address indicative of a communication link to which the network controller is connected, a local address and a node drop ID to determine whether the network controller is a configured or non-configured device. Data stored in an archive device is downloaded to a destination network controller

in the absence of a routing table in the destination network controller by transmitting a download request message from the archive device to an intermediate network controller with a routing table. The intermediate network controller assumes control of the download request by transmitting the message to the destination controller. The destination controller acknowledges receipt of the message by transmitting an acknowledge message back to the intermediate network controller, which passes the acknowledge message to the archive device in accordance with the routing information stored in the intermediate network controller. Thus, as certain network controllers are connected, disconnected or
disabled during the operation of the network, the control of a process is not interrupted. Additionally, the network controllers are not configured to store large amounts of routing data because a path to a device can be established through other controllers with routing information.

L48 ANSWER 1 OF 37 USPATFULL
AN 2000:110843 USPATFULL
TI Method, means and system for communicating on a shared transmission medium
IN Delumeau, Fran.cedilla.ois, Rennes, France
PA Canon Kabushiki Kaisha, Tokyo, Japan (non-U.S. corporation)
PI US 6108344 20000822
AI US 1997-787051 19970128 (8)
PRAI FR 1996-1127 19960131
DT Utility
LN.CNT 1791
INCL INCLM: 370/445.000
NCL NCLM: 370/445.000
IC [7]
ICM: H04L012-413
EXF 370/254; 370/252; 370/445; 370/447; 370/448; 370/453; 370/461; 370/482; 455/8; 455/9; 455/103; 455/528; 455/500

L48 ANSWER 2 OF 37 USPATFULL
AN 2000:71702 USPATFULL
TI System and method for unreported root cause analysis
IN Bencheck, Michael, Garland, TX, United States
Branton, Robert, Farmers Branch, TX, United States
Brownmiller, Curtis, Richardson, TX, United States
DeMoss, Mark, The Colony, TX, United States
Landon, Steve, Richardson, TX, United States
Tran, Minh T., Plano, TX, United States
PA MCI Communications Corporation, Washington, DC, United States (U.S. corporation)
PI US 6072777 20000606
AI US 1996-668516 19960628 (8)
DT Utility
LN.CNT 1161
INCL INCLM: 370/244.000
INCLS: 370/465.000; 340/825.060
NCL NCLM: 370/244.000
NCLS: 340/825.060; 370/465.000
IC [7]
ICM: H04L012-26
ICS: G05B023-02
EXF 370/241; 370/242; 370/246; 370/247; 370/248-250; 370/465; 370/466; 370/522; 340/521-523; 340/825.66; 340/825.01; 340/825.06; 364/514B; 371/20.1; 371/20.2; 714/43; 714/47

L48 ANSWER 3 OF 37 USPATFULL
AN 2000:48378 USPATFULL
TI System and method for managing network resources using distributed intelligence and state management
IN Taghadoss, Mehdi, Cary, NC, United States
PA MCI Communications Corporation, Washington, DC, United States (U.S. corporation)
PI US 6052722 20000418
AI US 1997-813724 19970307 (8)
DT Utility
LN.CNT 1201
INCL INCLM: 709/223.000
INCLS: 709/224.000
NCL NCLM: 709/223.000

NCLS: 709/224.000
IC [7]
ICM: G06F013-38
ICS: G06F015-17
EXF 395/200.53; 395/200.54; 709/223; 709/224; 709/226; 709/202

L48 ANSWER 4 OF 37 USPATFULL
AN 1999:127810 USPATFULL
TI System of reporting errors by a hardware element of a distributed computer system
IN Desnoyers, Christine Marie, Pine Bush, NY, United States
Garmire, Derrick LeRoy, Kingston, NY, United States
Herrmann, Antoinette Elaine, Poughkeepsie, NY, United States
Kampf, Francis Alfred, Fairfax, VT, United States
Stucke, Robert Frederick, Saugerties, NY, United States
PA International Business Machines Corporation, Armonk, NY, United States (U.S. corporation)
PI US 5968189 19991019
AI US 1997-838389 19970408 (8)
DT Utility
LN.CNT 561
INCL INCLM: 714/047.000
NCL NCLM: 714/047.000
IC [6]
ICM: G06F011-00
EXF 395/182.02; 395/182.09; 395/185.01; 395/185.1; 395/185.02; 395/200.68; 395/200.69; 395/200.72

L48 ANSWER 5 OF 37 USPATFULL
AN 1999:79843 USPATFULL
TI Method of reporting errors by a hardware element of a distributed computer system
IN Desnoyers, Christine Marie, Pine Bush, NY, United States
Garmire, Derrick LeRoy, Kingston, NY, United States
Herrmann, Antoinette Elaine, Poughkeepsie, NY, United States
Kampf, Francis Alfred, Fairfax, VT, United States
Stucke, Robert Frederick, Saugerties, NY, United States
PA International Business Machines Corporation, Armonk, NY, United States (U.S. corporation)
PI US 5923840 19990713
AI US 1997-831255 19970408 (8)
DT Utility
LN.CNT 553
INCL INCLM: 395/185.010
INCLS: 395/182.020; 395/185.100
NCL NCLM: 714/048.000
NCLS: 714/004.000; 714/057.000
IC [6]
ICM: G06F011-00
EXF 395/185.01; 395/182.02; 395/183.14; 395/184.01; 395/183.21; 395/183.19; 395/185.09; 395/185.1

L48 ANSWER 6 OF 37 USPATFULL
AN 1999:68055 USPATFULL
TI Raw performance monitoring correlated problem alert signals
IN Brownmiller, Curtis, Richardson, TX, United States
Bencheck, Michael, Garland, TX, United States
Tran, Minh T., Plano, TX, United States
Branton, Robert, Farmers Branch, TX, United States
DeMoss, Mark, The Colony, TX, United States
Landon, Steve, Richardson, TX, United States
PA MCI Communications Corporation, Washington, DC, United States (U.S. corporation)
PI US 5913036 19990615
AI US 1996-670847 19960628 (8)

DT Utility
LN.CNT 932
INCL INCLM: 395/200.540
INCLS: 395/200.530; 395/184.010; 395/183.010; 370/244.000; 370/241.000; 370/248.000; 370/249.000; 370/250.000; 371/020.100; 340/825.060
NCL NCLM: 709/224.000
NCLS: 340/825.060; 370/241.000; 370/244.000; 370/248.000; 370/249.000; 370/250.000; 709/223.000; 714/025.000; 714/047.000; 714/712.000
IC [6]
ICM: G06F011-30
ICS: H04J003-14
EXF 395/200.54; 395/200.53; 395/184.01; 395/183.15; 370/242; 370/241; 370/243; 370/246-250; 370/251-253; 370/229-231; 370/236; 370/466; 370/465; 340/825.06; 340/825.01; 340/825.16; 340/521; 340/522; 371/20.1;
371/20.2

L48 ANSWER 7 OF 37 USPATFULL
AN 1999:13665 USPATFULL
TI System and method for reported root cause analysis
IN Brownmiller, Curtis, Richardson, TX, United States
Bencheck, Michael, Garland, TX, United States
Tran, Minh T., Plano, TX, United States
Branton, Robert, Farmers Branch, TX, United States
DeMoss, Mark, The Colony, TX, United States
Landon, Steve, Richardson, TX, United States
PA MCI Communication Corporation, WA, United States (U.S. corporation)
PI US 5864662 19990126
AI US 1996-670844 19960628 (8)
DT Utility
LN.CNT 1167
INCL INCLM: 395/183.190
INCLS: 395/184.010
NCL NCLM: 714/043.000
NCLS: 714/047.000
IC [6]
ICM: G06F011-00
EXF 395/183.01; 395/183.15; 395/183.11; 395/183.17; 395/183.19; 395/741; 395/742; 364/267; 364/267.7; 379/1; 379/32; 379/33

L48 ANSWER 8 OF 37 USPATFULL
AN 1999:13611 USPATFULL
TI System and method for formatting performance data in a telecommunications system
IN Brownmiller, Curtis, Richardson, TX, United States
Bencheck, Mike, Garland, TX, United States
Tran, Minh, Plano, TX, United States
Branton, Robert, Farmers Branch, TX, United States
DeMoss, Mark, The Colony, TX, United States
Landon, Steve, Richardson, TX, United States
PA MCI Communications Corporation, Washington, DC, United States (U.S. corporation)
PI US 5864608 19990126
AI US 1996-670905 19960626 (8)
DT Utility
LN.CNT 711
INCL INCLM: 379/113.000
INCLS: 379/133.000; 379/219.000; 379/229.000; 370/248.000; 370/351.000
NCL NCLM: 379/113.000
NCLS: 370/248.000; 370/351.000; 379/133.000; 379/219.000; 379/229.000
IC [6]
ICM: H04M015-00
EXF 379/111; 379/112; 379/113; 379/121; 379/133; 379/141; 379/154; 379/191; 379/196; 379/197; 379/207; 379/230; 379/242; 379/244; 379/335; 379/271; 379/306; 379/310; 379/219; 379/220; 379/221; 379/222; 379/229; 370/248;

370/250; 370/351; 370/352

L48 ANSWER 9 OF 37 USPATFULL
AN 1998:152041 USPATFULL
TI System and method for monitoring network elements organized in data communication channel groups with craft interface ports
IN Branton, Jr., Robert A., Farmers Branch, TX, United States
DeMoss, John Mark, The Colony, TX, United States
PA MCI Communications Corporation, Washington, DC, United States (U.S. corporation)
PI US 5845062 19981201
AI US 1996-671029 19960625 (8)
DT Utility
LN.CNT 514
INCL INCLM: 395/183.010
INCLS: 395/183.190; 395/200.530; 395/200.540
NCL NCLM: 714/025.000
NCLS: 709/223.000; 709/224.000; 714/043.000
IC [6]
ICM: G08F011-30
EXF 395/183.01; 395/183.19; 395/200.53; 395/200.54; 371/20.1; 370/241-258

L48 ANSWER 10 OF 37 USPATFULL
AN 1998:99724 USPATFULL
TI System and method for end-to-end threshold setting
IN Bencheck, Michael, Garland, TX, United States
Branton, Robert, Farmers Branch, TX, United States
Brownmiller, Curtis, Richardson, TX, United States
DeMoss, Mark, The Colony, TX, United States
Landon, Steve, Richardson, TX, United States
Tran, Minh T., Plano, TX, United States
PA MCI Communications Corporation, Washington, DC, United States (U.S. corporation)
PI US 5796723 19980818
AI US 1996-670845 19960628 (8)
DT Utility
LN.CNT 1100
INCL INCLM: 370/252.000
INCLS: 395/185.010
NCL NCLM: 370/252.000
NCLS: 714/048.000
IC [6]
ICM: H04J003-14
ICS: H04L012-26
EXF 370/229; 370/230; 370/231; 370/235; 370/236; 370/252; 370/253; 370/241; 370/242; 370/216; 370/245; 370/244; 395/180; 395/181; 395/183.01; 395/184.01; 395/185.01; 395/185.03; 395/185.04; 340/825.06; 340/825.16

L48 ANSWER 11 OF 37 USPATFULL
AN 1998:93373 USPATFULL
TI Computer system analysis device
IN Izuta, Kazuya, Tokyo, Japan
Ito, Toshiya, Tokyo, Japan
Endo, Yoshio, Tokyo, Japan
PA Mitsubishi Denki Kabushiki Kaisha, Tokyo, Japan (non-U.S. corporation)
PI US 5790777 19980804
AI US 1995-575225 19951220 (8)
PRAI JP 1995-103791 19950427
DT Utility
LN.CNT 911
INCL INCLM: 395/183.210
INCLS: 395/183.220
NCL NCLM: 714/045.000
NCLS: 714/046.000
IC [6]

ICM: G06F011-00
EXF 395/183.21; 395/183.22; 395/185.01; 395/185.02; 395/183.01; 395/183.08; 395/183.09; 395/183.13

L48 ANSWER 12 OF 37 USPATFULL
AN 1998:89534 USPATFULL
TI System and method for monitoring point activation
IN Brownmiller, Curtis, Richardson, TX, United States
Bencheck, Michael, Garland, TX, United States
Tran, Minh T., Plano, TX, United States
Branton, Robert, Framers Branton, TX, United States
DeMoss, Mark, Colony, TX, United States
Landon, Steve, Richardson, TX, United States
PA MCI Communications Corporation, Washington, DC, United States (U.S. corporation)
PI US 5787074 19980728
AI US 1996-672356 19960628 (8)
DT Utility
LN.CNT 1134
INCL INCLM: 370/244.000
INCLS: 370/907.000; 370/248.000; 371/020.100
NCL NCLM: 370/244.000
NCLS: 370/248.000; 370/907.000; 714/712.000
IC [6]
ICM: H04J003-14
EXF 370/241; 370/242; 370/243; 370/244; 370/248; 370/907; 370/217; 370/218; 370/400; 371/20.1; 371/20.2; 395/183.01; 395/183.07; 395/185.01; 340/825.06; 340/825.16

L48 ANSWER 13 OF 37 USPATFULL
AN 1998:86694 USPATFULL
TI System and method for unreported trouble isolation
IN Bencheck, Michael, Garland, TX, United States
Branton, Robert, Farmers Branch, TX, United States
Brownmiller, Curtis, Richardson, TX, United States
DeMoss, Mark, The Colony, TX, United States
Landon, Steve, Richardson, TX, United States
Tran, Minh T., Plano, TX, United States
PA MCI Communications Corporation, Washington, DC, United States (U.S. corporation)
PI US 5784359 19980721
AI US 1996-672513 19960628 (8)
DT Utility
LN.CNT 942
INCL INCLM: 370/244.000
INCLS: 370/907.000; 371/020.100
NCL NCLM: 370/244.000
NCLS: 370/907.000; 714/712.000
IC [6]
ICM: H04J003-14
EXF 370/241; 370/242; 370/248-250; 370/243; 370/255; 370/246; 370/465; 370/466; 370/522; 370/247; 371/20.1; 371/20.2; 340/825.01; 340/521; 340/523; 340/825.16; 340/825.06; 379/207

L48 ANSWER 14 OF 37 USPATFULL
AN 1998:80370 USPATFULL
TI System method and computer program product for processing faults in a hierarchial network
IN Brownmiller, Curtis, Richardson, TX, United States
Bencheck, Michael, Garland, TX, United States
Tran, Minh T., Plano, TX, United States
Branton, Robert, Farmers Branch, TX, United States
DeMoss, Mark, The Colony, TX, United States
Landon, Steve, Richardson, TX, United States
PA MCI Communications Corporation, Washington, DC, United States (U.S.

corporation)
PI US 5778184 19980707
AI US 1996-673271 19960628 (8)
DT Utility
LN.CNT 983
INCL INCLM: 395/200.540
NCL NCLM: 709/224.000
IC [6]
ICM: G06F011-30
EXF 395/200.57; 395/200.54; 395/200.55; 395/200.56; 379/33

L48 ANSWER 15 OF 37 USPATFULL
AN 1998:76756 USPATFULL
TI Process and device for identifying faults in a complex system
IN Beaujard, Jean-Philippe, Toulouse, France
Fernekes, Andre, Lavernose, France
PA Aerospatiale Societe Nationale Industrielle, Paris, France (non-U.S. corporation)
PI US 5774645 19980630
AI US 1995-521060 19950829 (8)
PRAI FR 1994-10363 19940829
DT Utility
LN.CNT 574
INCL INCLM: 395/183.010
INCLS: 395/184.010; 395/185.010; 395/182.090
NCL NCLM: 714/025.000
NCLS: 714/011.000; 714/047.000; 714/048.000
IC [6]
ICM: G06F011-00
EXF 395/183.13; 395/183.15; 395/183.01; 395/185.02; 395/185.01; 395/184.01; 395/185.1; 395/182.01; 395/181; 395/182.09; 395/182.16; 395/182.15; 395/182.18; 395/182.2

L48 ANSWER 16 OF 37 USPATFULL
AN 1998:70143 USPATFULL
TI System and method for identifying the technique used for far-end performance monitoring of a DS1 at a customer service unit
IN Brownmiller, Curtis, Richardson, TX, United States
Bencheck, Mike, Garland, TX, United States
Tran, Minh, Plano, TX, United States
Branton, Robert, Farmers Branch, TX, United States
DeMoss, Mark, The Colony, TX, United States
Landon, Steve, Richardson, TX, United States
PA MCI Communications Corporation, Washington, DC, United States (U.S. corporation)
PI US 5768261 19980616
AI US 1996-671028 19960625 (8)
DT Utility
LN.CNT 618
INCL INCLM: 370/252.000
INCLS: 370/242.000; 370/466.000; 379/029.000
NCL NCLM: 370/252.000
NCLS: 370/242.000; 370/466.000; 379/029.000
IC [6]
ICM: H04J003-14
EXF 370/241; 370/249; 370/252; 370/470; 370/526; 370/466; 370/242; 379/5; 379/34; 379/113; 379/13; 379/22; 379/29

L48 ANSWER 17 OF 37 USPATFULL
AN 1998:70137 USPATFULL
TI System and method for monitoring point identification
IN Brownmiller, Curtis, Richardson, TX, United States
Bencheck, Michael, Garland, TX, United States
Tran, Minh T., Plano, TX, United States
Branton, Robert, Farmers Branch, TX, United States

DeMoss, Mark, The Colony, TX, United States
Landon, Steve, [redacted]chardson, TX, United States
PA MCI Communications Corporation, Washington, DC, United States (U.S. corporation)
PI US 5768255 19980616
AI US 1996-672512 19960628 (8)
DT Utility
LN.CNT 1151
INCL INCLM: 370/248.000
INCLS: 370/907.000
NCL NCLM: 370/248.000
NCLS: 370/907.000
IC [6]
ICM: H04J003-14
EXF 370/254; 370/241; 370/242; 370/248; 370/255; 370/243; 370/246; 370/465; 370/466; 370/522; 370/244; 370/907; 371/20.1; 371/20.2; 340/825.01; 340/827; 379/707

L48 ANSWER 18 OF 37 USPATFULL
AN 1998:53218 USPATFULL
TI Method and apparatus for replacing a failed channel unit of a sectored base station, in a cellular radio system, with an additional channel unit
IN Jantti, Arto, Oulu, Finland
Katisko, Keijo, Oulu, Finland
PA Nokia Telecommunications Oy, Espoo, Finland (non-U.S. corporation)
PI US 5752161 19980512
WO 9508875 19950330
AI US 1996-619729 19960322 (8)
WO 1994-FI424 19940922
19960322 PCT 371 date
19960322 PCT 102(e) date
PRAI FI 1993-4198 19930924
DT Utility
LN.CNT 261
INCL INCLM: 455/008.000
INCLS: 455/009.000; 455/561.000
NCL NCLM: 455/008.000
NCLS: 455/009.000; 455/561.000
IC [6]
ICM: H04B003-36
ICS: H04B007-14
EXF 455/8; 455/9; 455/33.1; 455/53.1; 455/54.1; 455/54.2; 455/56.1; 455/67.1; 455/103; 455/422; 455/507; 455/517; 455/524; 455/510; 455/78; 455/62; 455/79; 455/561; 455/562; 455/516

L48 ANSWER 19 OF 37 USPATFULL
AN 1998:40723 USPATFULL
TI Method and system for associating related errors in a computer system
IN Ben-Natan, Or, Bellevue, WA, United States
Davis, Michael L., Bellevue, WA, United States
Copeland, Bruce W., Redmond, WA, United States
PA Microsoft Corporation, Redmond, WA, United States (U.S. corporation)
PI US 5740354 19980414
AI US 1995-562823 19951127 (8)
DT Utility
LN.CNT 849
INCL INCLM: 395/183.210
INCLS: 395/185.100; 364/265.000; 364/267.000; 364/943.900
NCL NCLM: 714/045.000
NCLS: 714/057.000
IC [6]
ICM: G06F011-00
EXF 395/183.21; 395/185.01; 395/183.14; 395/183.01; 395/183.22; 395/185.1; 364/265; 364/948.11; 364/943.9; 364/267; 364/275.5

L48 ANSWER 20 OF 37 USPATFULL
AN 1998:37794 USPATFULL
TI Method and system for log management in a coupled data processing system
IN Geiner, Robert Vaughn, Poughkeepsie, NY, United States
Nick, Jeffrey Mark, Fishkill, NY, United States
Phillips, Mark, Campbell, CA, United States
Warnes, James Henry, Poughkeepsie, NY, United States
Zimmer, Dennis Jack, Eastleigh, England
PA International Business Machines Corporation, Armonk, NY, United States (U.S. corporation)
PI US 5737600 19980407
AI US 1996-632683 19960415 (8)
RLI Continuation of Ser. No. US 1994-304677, filed on 12 Sep 1994, now abandoned
DT Utility
LN.CNT 3101
INCL INCLM: 395/616.000
INCLS: 395/617.000; 395/618.000
NCL NCLM: 707/200.000
NCLS: 707/201.000; 707/202.000
IC [6]
ICM: G06F017-30
EXF 395/600; 395/616; 395/618; 395/617

L48 ANSWER 21 OF 37 USPATFULL
AN 97:124156 USPATFULL
TI System and method for reported trouble isolation
IN Brownmiller, Curtis, Richardson, TX, United States
Bencheck, Mike, Garland, TX, United States
Tran, Minh, Plano, TX, United States
Branton, Robert, Farmers Branch, TX, United States
DeMoss, Mark, The Colony, TX, United States
Landon, Steve, Richardson, TX, United States
PA MCI Communications Corporation, Washington, DC, United States (U.S. corporation)
PI US 5704036 19971230
AI US 1996-672812 19960628 (8)
DT Utility
LN.CNT 997
INCL INCLM: 395/183.190
INCLS: 370/907.000
NCL NCLM: 714/043.000
NCLS: 370/907.000
IC [6]
ICM: G06F011-30
EXF 395/183.18; 395/183.16; 395/183.08; 395/183.01; 395/731; 395/741; 395/742; 395/183.19; 395/200.15; 395/907; 395/914; 395/216; 395/184.01; 371/20.1; 370/244; 370/242

L48 ANSWER 22 OF 37 USPATFULL
AN 97:89753 USPATFULL
TI Method and system for identification of software application faults
IN Batra, Jatinder Pal Singh, Westminster, CO, United States
PA U S West Technologies, Inc., Boulder, CO, United States (U.S. corporation)
PI US 5673386 19970930
AI US 1996-585148 19960111 (8)
RLI Continuation of Ser. No. US 1994-268132, filed on 29 Jun 1994, now abandoned
DT Utility
LN.CNT 638
INCL INCLM: 395/183.140
INCLS: 395/185.100; 395/181.000

NCL NCLM: 714/038.000
NCLS: 714/002.000; 714/057.000
IC [6]
ICM: C06F011-00
EXF 395/183.14; 395/184.01; 395/185.01; 395/185.1; 395/183.01; 395/182.22; 395/181

L48 ANSWER 23 OF 37 USPATFULL
AN 97:69223 USPATFULL
TI Point-to-multipoint performance monitoring and failure isolation system
IN Opoczynski, Adam, Eden Prairie, MN, United States
PA ADC Telecommunications, Inc., Bloomington, MN, United States (U.S. corporation)
PI US 5655068 19970805
AI US 1996-588363 19960117 (8)
RLI Continuation of Ser. No. US 1993-74913, filed on 10 Jun 1993, now patented, Pat. No. US 5519830
DT Utility
LN.CNT 744
INCL INCLM: 395/182.020
INCLS: 395/184.010; 395/185.050
NCL NCLM: 714/004.000
NCLS: 714/047.000; 714/052.000
IC [6]
ICM: G06F011-00
EXF 395/182.02; 395/184.01; 395/185.05; 395/185.01; 371/4; 371/5.1; 371/6; 371/20.1

L48 ANSWER 24 OF 37 USPATFULL
AN 97:59914 USPATFULL
TI Event correlation in telecommunications networks
IN Whitney, Christopher, Bath, United Kingdom
PA British Telecommunications public limited company, London, England (non-U.S. corporation)
PI US 5646864 19970708
WO 9419887 19940901
AI US 1995-507255 19951116 (8)
WO 1993-GB2502 19931207
19951116 PCT 371 date
19951116 PCT 102(e) date
PRAI GB 1993-3640 19930223
DT Utility
LN.CNT 477
INCL INCLM: 364/514.000B
NCL NCLM: 714/047.000
IC [6]
ICM: G06F017-00
EXF 364/514B; 364/514R; 395/182.01; 395/181; 395/185.01; 395/183.02; 395/183.21; 395/200.11; 340/825.1

L48 ANSWER 25 OF 37 USPATFULL
AN 97:48240 USPATFULL
TI Fault processing method and information processing system
IN Matsushita, Masayuki, Hadano, Japan
Ugajin, Atsushi, Sagamihara, Japan
Murase, Shooichi, Kokubunji, Japan
PA Hitachi, Ltd., Tokyo, Japan (non-U.S. corporation)
PI US 5636341 19970603
AI US 1995-476945 19950607 (8)
PRAI JP 1994-176921 19940728
DT Utility
LN.CNT 749
INCL INCLM: 395/182.110
INCLS: 395/182.020; 395/182.210; 395/183.010; 340/825.160
NCL NCLM: 714/013.000

NCLS: 340/825.160; 714/004.000; 714/023.000; 714/025.000
IC [6]
ICM: G06F011-30
ICS: G06F011-22; G06F011-00
EXF 395/182; 395/181; 395/182.21; 395/183.19; 395/200.13; 395/200.15; 395/183.01; 395/182.1; 395/182.09; 340/825.16

L48 ANSWER 26 OF 37 USPATFULL
AN 97:37123 USPATFULL
TI Mobile telecommunication system having an auxiliary routing arrangement
IN Lidbrink, Stefan, Haninge, Sweden
Rosenlund, Henrik, Haninge, Sweden
PA Televerket, Farsta, Sweden (non-U.S. corporation)
PI US 5625866 19970429
AI US 1995-422773 19950414 (8)
RLI Continuation of Ser. No. US 1994-221458, filed on 1 Apr 1994, now abandoned which is a continuation of Ser. No. US 1992-989547, filed on 11 Dec 1992, now abandoned
PRAI SE 1991-3681 19911212
DT Utility
LN.CNT 416
INCL INCLM: 455/008.000
INCLS: 455/033.100; 455/034.100; 455/054.100; 455/067.100
NCL NCLM: 455/008.000
NCLS: 455/067.100; 455/445.000
IC [6]
ICM: H04B017-00
ICS: H04Q007-30
EXF 455/8; 455/9; 455/33.1; 455/34.1; 455/53.1; 455/54.1; 455/56.1; 455/67.1; 455/68; 455/62; 455/34.2; 370/16; 379/60; 379/63; 379/59

L48 ANSWER 27 OF 37 USPATFULL
AN 97:30294 USPATFULL
TI System isolation and fast-fail
IN Montenegro, Gabriel E., Fremont, CA, United States
Drach, Steven J., San Francisco, CA, United States
Wong, Ho Y., Sunnyvale, CA, United States
PA Sun Microsystems, Inc., Mountain View, CA, United States (U.S. corporation)
PI US 5619645 19970408
AI US 1995-418830 19950407 (8)
DT Utility
LN.CNT 662
INCL INCLM: 395/185.010
INCLS: 395/184.010
NCL NCLM: 714/048.000
NCLS: 714/047.000
IC [6]
ICM: G06F011-00
EXF 395/182.02; 395/183.19; 395/185.01; 395/800; 395/185.08; 395/184.01; 395/185.02; 371/20.1; 370/60.1; 370/94.1; 364/242.96

L48 ANSWER 28 OF 37 USPATFULL
AN 97:16835 USPATFULL
TI Distributed database management over a network
IN Nilsen, Kenneth, Chappaqua, NY, United States
Garcia, David, Danbury, CT, United States
PA International Business Machines Corporation, Armonk, NY, United States (U.S. corporation)
PI US 5606693 19970225
AI US 1995-473154 19950607 (8)
RLI Division of Ser. No. US 1994-259376, filed on 14 Jun 1994 which is a continuation of Ser. No. US 1991-770056, filed on 2 Oct 1991, now abandoned
DT Utility

LN.CNT 280
INCL INCLM: 395/61[redacted]0
INCLS: 395/800.000; 395/200.030; 364/DIG.001; 364/243.700; 364/268.300; 364/282.400
NCL NCLM: 707/010.000
IC [6]
ICM: G06F011-34
ICS: G06F017-30
EXF 395/600; 395/575; 395/800; 395/650; 395/200

L48 ANSWER 29 OF 37 USPATFULL
AN 97:13384 USPATFULL
TI Software architecture system having a virtual I/O channel including multi-layered communication interface in between virtual stations and physical modules
IN Churchill, Steven J., Danbury, CT, United States
Daniels, Jr., Edward P., Trumbull, CT, United States
Kerney, Raymond J., Brookfield, CT, United States
PA Pitney Bowes Inc., Stamford, CT, United States (U.S. corporation)
PI US 5603059 19970211
AI US 1994-232542 19940422 (8)
DT Utility
LN.CNT 704
INCL INCLM: 395/856.000
INCLS: 395/858.000; 395/376.000; 395/406.000
NCL NCLM: 710/036.000
NCLS: 709/100.000; 710/038.000; 712/200.000
IC [6]
ICM: G06F013-00
ICS: G06F013-14
EXF 395/825; 395/838; 395/849; 395/831; 395/856; 395/858; 395/725; 395/775; 395/406; 395/418; 370/94.1; 370/110.1

L48 ANSWER 30 OF 37 USPATFULL
AN 97:4695 USPATFULL
TI Method and apparatus for handling processing errors in telecommunications exchanges
IN Jonsson, Anders, Stockholm, Sweden
Winberg, Uffe, Bandhagen, Sweden
Lignell, Charles G. E., Alvsjo, Sweden
Lee, Chung M., Vista, Sweden
Larsen, Peter, Fredriksberg, Sweden
PA Telefonaktiebolaget L M Ericsson, Stockholm, Sweden (non-U.S. corporation)
PI US 5594861 19970114
AI US 1995-512275 19950818 (8)
DT Utility
LN.CNT 460
INCL INCLM: 395/181.000
INCLS: 395/185.010; 379/242.000
NCL NCLM: 714/002.000
NCLS: 379/242.000; 714/048.000
IC [6]
ICM: G06F011-34
EXF 395/181; 395/183.14; 395/182.13; 395/182.14; 395/182.15; 395/185.01; 364/285; 364/265.6; 364/266.5; 379/242

L48 ANSWER 31 OF 37 USPATFULL
AN 96:66458 USPATFULL
TI Problem determination method for local area network systems
IN Winokur, Alex, Haifa, Israel
Shiloach, Joseph, Kiriak Tiv'on, Israel
Ribak, Amnon, Misgav, Israel
Huang, Yuangeng, Travis County, TX, United States
PA International Business Machine Corporation, Armonk, NY, United States

(U.S. corporation)
PI US 5539877 19960723
AI US 1994-266073 19940627 (8)
DT Utility
LN.CNT 532
INCL INCLM: 395/183.020
INCLS: 395/183.010; 395/185.010
NCL NCLM: 714/026.000
NCLS: 714/025.000; 714/048.000
IC [6]
ICM: G06F011-34
EXF 395/575; 395/183.02; 395/183.01; 395/185.01; 371/15.1; 371/30; 371/48; 364/488; 364/489; 364/490; 364/491; 324/73; 324/158R

L48 ANSWER 32 OF 37 USPATFULL
AN 96:44474 USPATFULL
TI Point-to-multipoint performance monitoring and failure isolation system
IN Opoczynski, Adam, Eden Prairie, MN, United States
PA ADC Telecommunications, Inc., Minneapolis, MN, United States (U.S. corporation)
PI US 5519830 19960521
AI US 1993-74913 19930610 (8)
DT Utility
LN.CNT 1035
INCL INCLM: 395/182.020
INCLS: 395/184.010; 395/185.050
NCL NCLM: 714/004.000
NCLS: 714/047.000; 714/052.000
IC [6]
ICM: G06F011-00
EXF 371/20.1; 371/11.2; 371/4; 371/5.1; 371/16.5; 371/6; 395/575; 395/5.2; 395/6; 395/182.02; 395/184.01; 395/185.05; 395/185.01

L48 ANSWER 33 OF 37 USPATFULL
AN 96:4426 USPATFULL
TI Expert based system and method for managing error events in a local area
network
IN Winokur, Alex, Haifa, Israel
Shiloach, Joseph, Kirat Tiv'on, Israel
Ribak, Amnon, Misgav, Israel
Huang, Yuangene, Austin, TX, United States
PA International Business Machines Corporation, Armonk, NY, United States (U.S. corporation)
PI US 5483637 19960109
AI US 1994-266074 19940627 (8)
DT Utility
LN.CNT 555
INCL INCLM: 395/183.020
INCLS: 395/183.220
NCL NCLM: 714/026.000
NCLS: 714/046.000
IC [6]
ICM: G06F011-00
ICS: G06F015-18
EXF 395/575; 395/550; 395/183.02; 395/183.22; 395/911; 395/917; 364/550; 364/264.7; 364/269.4; 371/20.1

L48 ANSWER 34 OF 37 USPATFULL
AN 95:55041 USPATFULL
TI Method for maintaining a sequence of events function during failover in a redundant multiple layer system
IN Banerjee, Indra, Conshohocken, PA, United States
McLaughlin, Paul F., Hatfield, PA, United States
McCracken, Kevin R., Warrington, PA, United States

PA Honeywell Inc., Minneapolis, MN, United States (U.S. corporation)
PI US 5426774 19950620
AI US 1993-42923 19930406 (8)
DT Utility
LN.CNT 639
INCL INCLM: 395/575.000
NCL NCLM: 714/016.000
NCLS: 710/015.000
IC [6]
ICM: G06F011-00
EXF 395/575; 371/7; 371/8.1; 371/16.5; 371/29.1; 371/11.1; 371/11.3

L48 ANSWER 35 OF 37 USPATFULL
AN 95:6541 USPATFULL
TI Method and apparatus for locating source of error in high-speed synchronous systems
IN Satterlee, Chris, San Jose, CA, United States
Penman, Duncan, Sunnyvale, CA, United States
PA Amdahl Corporation, Sunnyvale, CA, United States (U.S. corporation)
PI US 5383201 19950117
AI US 1991-813891 19911223 (7)
DT Utility
LN.CNT 1237
INCL INCLM: 371/029.100
NCL NCLM: 714/004.000
NCLS: 714/030.000
IC [6]
ICM: G06F011-00
EXF 371/16.5; 371/29.1; 371/16.1; 395/575

L48 ANSWER 36 OF 37 USPATFULL
AN 94:91760 USPATFULL
TI Configurable, recoverable parallel bus
IN Bartow, Neil G., Saugerties, NY, United States
Capowski, Robert S., Verbank, NY, United States
Fasano, Louis T., Poughkeepsie, NY, United States
Gregg, Thomas A., Highland, NY, United States
Salyer, Gregory, Woodstock, NY, United States
Westcott, Douglas W., Rhinebeck, NY, United States
PA International Business Machines Corporation, Armonk, NY, United States (U.S. corporation)
PI US 5357608 19941018
AI US 1992-839657 19920220 (7)
DT Utility
LN.CNT 1266
INCL INCLM: 395/200.000
INCLS: 375/036.000
NCL NCLM: 709/227.000
NCLS: 375/257.000; 709/248.000
IC [5]
ICM: G06F013-00
EXF 395/200; 375/36; 375/122; 375/7; 375/121; 385/107; 385/109; 371/11.1; 371/11.2; 371/20.1; 370/13; 370/13.1; 370/14; 364/200

L48 ANSWER 37 OF 37 USPATFULL
AN 93:85733 USPATFULL
TI Failure and performance tracking system
IN Kleinschnitz, Donald, Melbourne, FL, United States
PA Storage Technology Corporation, Louisville, CO, United States (U.S. corporation)
PI US 5253184 19931012
AI US 1991-718491 19910619 (7)
DT Utility
LN.CNT 1028
INCL INCLM: 364/550.000